

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/018109

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl? F16G1/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl? F16G1/00-17/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-270631 A (TSUBAKIMOTO CHAIN CO., LTD) 1999.10.05, whole document, Fig.1-7 & US 6203886 B1 & DE 19912949 A & FR 2776353 A1	1-5
A	JP 64-26048 A (YUNITTA CO., LTD) 1989.01.27, whole document, Fig1-3 (Family:none)	1-5
A	JP 2001-18300 A (YUNITTA CO., LTD) 2001.01.23, whole document, Fig1-11 (Family:none)	1-5
A	JP 2002-39277 A (BANDO CHEMICAL INDUSTRIES, LTD) 2002.02.06, whole document, Fig1-4 (Family:none)	1-5



Further documents are listed in the continuation of Box C.



See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
17.12.2004

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11.1.2005

Name and mailing address of the ISA/JP
Japan Patent Office
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer
TOMOAKI HIRASE

3J 3120

Telephone No. +81-3-3581-1101 Ext. 3328

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 018846/1980 (Laid-open No. 120455/1981) (BANDO CHEMICAL INDUSTRIES, LTD), 1981.09.14, whole document, Fig1-7 (Family:none)	1-5